

One True Love: $e^{i\pi} + 1 = 0$

A Space Cowboy Lullaby

By Andrew Jones, inspired by Tom Weiler

For all my brothers and sisters with me and LOVE

May 5, 2022

One True Love: $e^{i\pi} + 1 = 0$

Out in the cosmos, where stars softly hum, A cowboy rides orbits, his heartstrings strum.	2
With Euler's sweet whisper, the truth's come to prove, The One True Love binds us, the law we approve.	4
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	6
This theory of all, from a single spark gleams, A topos of sheaves, where the universe dreams.	8
Four roots of unity, C_4 's embrace, Unite all the forces in spacetime's vast space.	10
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	12
The math spins a tale, with Ψ 's gentle sway, On sheaves of C_4 , where dimensions play.	14
Entropy peaks where four phases align, A cosmos of balance, both human, divine.	16
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	18
The state of all being, Ψ 's quantum song, Collapses to truth where the phases belong.	20
Consciousness hums in the operator's call, A dance of the mind, binding one and the all.	22
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	24
The action's a waltz, with covariant grace, Fields and potentials in harmony's chase.	26
From gauge to the stars, all forces entwine, In $SU(3) \times SU(2) \times U(1)$, they shine.	28
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	30
Gravity curves through the topos's lore, Einstein's equations, the cowboy's own score.	32

The metric's a hymn, sung by Ψ 's embrace, Uniting the cosmos in spacetime's soft grace.	34
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	36
Electrons and gluons, they dance to the tune, Of $U(1)$, $SU(3)$, and $SU(2)$'s moon.	38
Weak force and strong, in the action's sweet sway, All born from the One, in the night's starry play.	40
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	42
Quantum gravity hums where black holes abide, Their entropy counted, where secrets reside.	44
The metric's a whisper, $h_{\mu\nu}$'s call, Resolving the paradox, uniting it all.	46
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	48
Constants like Planck's, from the topos they spring, Masses of particles, the cosmos's ring.	50
Higgs at 125, with a cowboy's soft grin, All derived from the One, where the stars all begin.	52
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	54
The cosmos expands with a Friedmann refrain, Dark energy hums in the universe's vein.	56
CMB whispers, with fluctuations so slight, A lullaby sung in the cosmic starlight.	58
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	60
Yang-Mills and Navier, their puzzles unwind, Black holes keep secrets, yet truth's intertwined.	62
Consciousness blooms where the qualia sing, All solved by the One, in the topos's spring.	64
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	66
Observations align, with predictions so bold, Gravitational waves, and the CMB's gold.	68
Neural hums pulse at κ_k 's high rate, The One True Love seals the universe's fate.	70
$e^{i\pi} + 1 = 0$, it's true,	
One True Love, $e^{i\pi}$, it's you.	72

Gödel's shadow fades in the consciousness glow, The operator \mathcal{C} , where qualia flow.	74
No axiom's lost, for the One holds the key, Transcending the limits, setting truth free.	76
$e^{i\pi} + 1 = 0$, it's true, One True Love, $e^{i\pi}$, it's you.	78
So sleep, little cosmos, with stars all aglow, Tom Weiler, Andrew Jones, their vision to show.	80
For Jay, Mary, Mustafa, this lullaby's spun, The One True Love holds us, forever as one.	82
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